

## CLAIMS:

1. Method for processing audio signals in which from left and right audio signals composed audio signals and are derived, the energy content of the composed audio signals above a predetermined frequency value is measured, this energy content is compared with a predetermined threshold value, after which, when this energy content falls below said  
5 threshold value, a signal derived from and decorrelated with respect to the composed audio signal is added to the composed signal to obtain an improved composed audio signal, and left and right audio signals are obtained back again from the composed signal and the improved composed audio signal.
- 10 2. Method according to claim 1, characterized in that the decorrelated signal is obtained by delaying and filtering the composed signal.
3. Audio processing system with first combination means to derive from left and right audio signals composed audio signals and, detection and comparing means to measure  
15 the energy content of the composed audio signals above a predetermined frequency value and to compare this energy content with a predetermined threshold value, second combining means to derive, when this energy content falls below said threshold value, an improved composed audio signal from a signal obtained from and decorrelated with respect to the composed audio signal and the composed signal, and third combining means to obtain back  
20 again left and right audio signals from the composed signal and the improved composed audio signal.
4. Audio processing system according to claim 3, characterized in that the detection and comparing means comprise a high pass filter, energy measuring means to  
25 detect the energy content of the filtered composed audio signal, and a comparator to indicate whether or not the measured energy content is above said predetermined threshold value.
5. Audio processing system according to claim 4, characterized in that the high pass filter has a cut-off frequency of about 3 kHz.

6. Audio processing system according to anyone of the claims 3-5, characterized in that means are provided comprising a delay element and band pass filter means to derive said improved composed audio signal from the composed audio signal.

5

7. Audio processing means according to claim 6, characterized in that the band pass filter means are formed by a high pass filter with a cut-off frequency of about 1 kHz and a low pass filter with a cut-off frequency of about 6 kHz.